WYDZIAŁ FIZYKI UW

Field of study: Physics (Studies in English)

Profile: general academic 2-year second cycle program, full-time

Academic year: 2024/2025

Specialization: Theoretical Physics

First year, semester 1								
			Option A		Option B			
Course title	Course code	Form of classes	Number of hours	Number of ECTS points	Number of hours	Number of ECTS points	Learning outcomes assessment	
Physics Laboratory, 2nd A	1100-4PLA	lab	45	5	45	5	written report (grade [#])	
5	1100-4SPA or	lecture	45	7	45	_	written or oral exam	
Elective course from the Statistical physics list	1100-4SPB	exercises	45	7	45	7		
Intellectual property and entrepreneurship (Option	4400 4105	lecture	30	2	30	5	written exam	
A) or Intellectual property and entrepreneurship with team project (Option B)	1100-4IPE or 1100-4AF16	project	0	0	75		project	
Subject to choose from the Numerical analysis list			30	3	30	3	wrtten exam or grade	
Elective course from the Advanced Quantum		lecture	30		30		written or oral	
Mechanics list		exercises	30	6	30	6	exam	
Electives from the Topics in contemporary physics list			30	3	30	3	written exam or grade	
Specialist seminar		seminar	30	2	30	2	grade	
OGUN (General University Courses)*			30	3	30	3	written exam or grade	
In total (1st semester)			345	31	420	34		

First year, semester 2								
		Option A		Option B				
Course title	Course code	Form of classes	Number of hours	Number of ECTS points	Number of hours	Number of ECTS points	Learning outcomes assessment	
Introduction to Philosopy	1100-IP	seminar	30	3	30	3	grade	
Subject to choose from the Numerical analysis list			30	3	30	3	written exam or grade	
Electives form the Topics in contemporary physics list (Option A or Option B)			180	18	150	15	written exam or grade	
Specialist seminar		seminar	30	2	30	2	grade	
OGUN (General University Courses)*			30	3	30	3	written exam or grade	
In total (2nd semester)			300	29	270	26		

Second year, semester 3								
			Option A***		Option B			
Course title	Course code	Form of classes	Number of hours	Number of ECTS points	Number of hours	Number of ECTS points	Learning outcomes assessment	
Work placement	1100-WP	internship	80	4	80	4	written report (grade)	
Team project**	1100-TP or 1100-ZPS2	project	75	5	0	0	grade	
Electives from the Topics in contemporary physics list			120	12	120	12	written exam or grade	
Specialist seminar		seminar	60	4	60	4	grade	
Workshop in theoretical physics I	1100-5WTP1	workshop	120	10	120	10	grade	

In total (3rd semester)	455	35	380	30	

Second year, semester 4								
Course title	Course code	From of classes	Number of hours	Number of ECTS points	Learning outcomes assessment			
Proseminar Challenges of the modern times	1100-PCMT	seminar	20	2	grade			
Proseminar Theoretical physics	1100-5sTP	seminar	30	3	grade			
Workshop in theoretical physics II	1100-5WTP2	workshop	240	25	submission of a master's thesis accepted by the supervisor			
In total (4th semester)			290	30				

	Optior	ı A	Option B	
In total	Number of hours	Number of ECTS points	Number of	Number of ECTS points
1 year	645	60	690	60
2 year	745	65	670	60
1 and 2 year	1390	125	1360	120

Comments:

^{*} The completion of 5 ECTS from subjects in the fields of humanities or social sciences is required as part of the study program.

^{**} A team project can be completed within a dedicated course or as part of other courses in the study program, provided that the organization of the subject's classes inovolves teamwork.

^{***}Option A is obligatory for those students who did not complete a team project during the first year

^{*}Passing with a grade means that the grade is awarded based on one or more written assessments conducted during the course of the didactic classes or based on